

PATENT  
Docket No.

Client Ref.

**COMBINED DECLARATION AND POWER OF ATTORNEY  
FOR UTILITY/DESIGN PATENT APPLICATION**

AS A BELOW-NAMED INVENTOR, I HEREBY DECLARE THAT:

My residence, citizenship, and post office address are as stated below next to my name.

I believe I am the original, first and sole (or joint, if more than one name appears below) inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

SEMICONDUCTOR LASER MANUFACTURING METHOD AND  
SEMICONDUCTOR LASER

the specification of which:

is attached hereto.  
 was filed on \_\_\_\_\_ as application serial No. \_\_\_\_\_ and was amended  
on \_\_\_\_\_ (if applicable).

I HAVE REVIEWED AND UNDERSTAND THE CONTENTS OF THE ABOVE-  
IDENTIFIED SPECIFICATION, INCLUDING THE CLAIMS, AS AMENDED BY ANY  
AMENDMENT REFERRED TO ABOVE.

I acknowledge and understand that I have a duty to disclose information which is material to the patentability of the claims of this application in accordance with Title 37, Code of Federal Regulations, §§ 1.56(a) and (b).

I hereby claim foreign priority benefits under Title 35, United States Code § 119(a)-(d) of the foreign application(s) for patent indicated below and have also identified below the foreign applications for patent or inventor's certificate on this invention having a filing date before that of the application for patent or inventor's certificate on this invention having a filing date before that of the application on which priority is claimed:

0958740011204

Country/International	Application No.	Date of Filing (day/month/year)	Priority Claimed?
Japan	2000-354191	21/11/2000	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

I hereby claim benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

Application Serial No.	Filing Date

I hereby claim benefit under Title 35, United States Code, § 120 of any United States application(s) listed below, and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §§ 1.56(a) and (b) set forth above which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Filing Date	Status
		<input type="checkbox"/> Patented <input type="checkbox"/> Pending <input type="checkbox"/> Abandoned
		<input type="checkbox"/> Patented <input type="checkbox"/> Pending <input type="checkbox"/> Abandoned
		<input type="checkbox"/> Patented <input type="checkbox"/> Pending <input type="checkbox"/> Abandoned

I hereby appoint the following attorneys and agents to prosecute that application and to transact all business in the Patent and Trademark Office connected therewith and to file, to prosecute and to transact all business in connection with all patent applications directed to the invention:

Thomas E. Ciotti (Reg. No. 21,013)  
Gladys H. Monroy (Reg. No. 32,430)  
Barry E. Bretschneider (Reg. No. 28,055)  
Freddie K. Park (Reg. No. 35,636)  
Paul C. Kimball (Reg. No. 34,641)  
Shmuel Livnat (Reg. No. 33,949)  
Tyler Dylan (Reg. No. 37,612)  
Thomas G. Wiseman (Reg. No. 35,046)

Kate H. Murashige (Reg. No. 29,959)  
Debra Shetka (Reg. No. 33,309)  
Thomas E. Wheelock (Reg. No. 28,825)  
Stephen C. Durant (Reg. No. 31,506)  
Patricia M. Drost (Reg. No. 29,790)  
Cecily Anne Snyder (Reg. No. 37,448)  
Edward G. Durney (Reg. No. 37,611)  
Madeline I. Johnston (Reg. No. 36,174)

Antoinette F. Konski (Reg. No. 34,202)  
E. Victor Donahue (Reg. No. 35,492)  
Laurie Axford (Reg. No. 35,053)  
Catherine M. Polizzi (Reg. No. 40,130)  
Thomas D. Mays (Reg. No. 34,524)  
Richard D. Jordan (Reg. No. 33,519)

Harry J. Macey (Reg. No. 32,818)  
Robert Saltzberg (Reg. No. 36,910)  
Mani Adeli (Reg. No. 39,585)  
Sean Brennan (Reg. No. 39,917)  
J. Michael Schiff (Reg. No. 40,253)

Please direct all communications to:

Barry E. Bretschneider  
Morrison & Foerster LLP  
2000 Pennsylvania Avenue, N.W.  
Washington, D.C. 20006-1888

Please direct all telephone calls to Barry E. Bretschneider at (202) 887-1500.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Oct. 31, 2001

Date

Tetsuyoshi Inoue

Name: Tetsuyoshi INOUE  
Residence: Yamatotakada-shi, Nara-ken, Japan  
Citizenship: Japan  
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Nara-ken, Japan

Oct. 31, 2001

Date

Kazunori Matsubara

Name: Kazunori MATSUBARA  
Residence: Shiki-gun, Nara-ken, Japan  
Citizenship: Japan  
Post OfficeAddress: 537, Yakuoji, Tawaramoto-cho, Shiki-gun,  
Nara-ken, Japan

Date

Name:

Residence:

Citizenship:

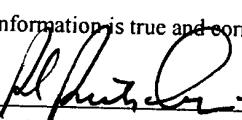
Post OfficeAddress:

**U.S. DEPARTMENT OF COMMERCE**

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

Patent and Trademark Office  
Docket No. 204552021700

To the Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Tetsuyoshi INOUE and Kazunori MATSUBARA		2. Name and address of receiving party(ies):  Name: Sharp Kabushiki Kaisha Internal Address: Street Address: 22-22, Nagaike-cho, Abeno-ku City: Osaka, State: Japan ZIP:
<input checked="" type="checkbox"/> Individual(s) <input type="checkbox"/> Association <input type="checkbox"/> General Partnership <input type="checkbox"/> Limited Partnership <input type="checkbox"/> Corporation-State <input type="checkbox"/> Other		
Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Nature of conveyance:  <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other:		Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Execution Date: October 31, 2001		
4. Application number(s) or patent number(s):  If this document is being filed together with a new application, the execution date of the application is: October 31, 2001		
A. Patent Application No.(s)		B. Patent No.(s)
Additional numbers attached? <input type="checkbox"/> Yes <input type="checkbox"/> No		
5. Name and address of party to whom correspondence concerning document should be mailed:  Barry E. Bretschneider Morrison & Foerster LLP 2000 Pennsylvania Avenue, N.W. Washington, D.C. 20006-1888		6. Total number of applications and patents involved: *  7. Total fee (37 C.F.R. § 3.41): \$40.00  <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account, referencing Attorney Docket 204552021700
8. Deposit account number: <u>03-1952</u>		
The Commissioner is hereby authorized to charge any fees under 37 C.F.R. § 1.21 that may be required by this paper, or to credit any overpayment to Deposit Account No. <u>03-1952</u> .		
<b>DO NOT USE THIS SPACE</b>		
9. Statement and signature.  To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.		
Name: Barry E. Bretschneider Registration No: 28,055		 Signature _____ <u>November 13, 2001</u> Date
Total number of pages comprising cover sheet, attachments and document: 3		

**Mail documents to be recorded with required postage to:**

be recorded with required cover sheet  
U.S. Patent and Trademark Office  
Office of Public Records  
Box Assignments  
Crystal Gateway 4, Room 335  
Washington, D.C. 20231

# MORRISON & FOERSTER LLP

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assign(s), transfer(s) and set(s) over to:

SHARP KABUSHIKI KAISHA of 22-22, Nagaike-cho,  
Abeno-ku, Osaka, Japan

(hereinafter designated as the "ASSIGNEE"), its successors and assigns, the entire right, title, and interest for the United States in the invention, and all applications for patent and any Letters Patent which may be granted therefor, including said application, and all United States Letters Patent which may be granted thereof, and all divisions, reissues, continuations and extensions thereof, the said interest being the entire ownership of said Letters Patent when granted to be held by said ASSIGNEE, its successors, assigns or their legal representatives, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been and enjoyed by Assignor(s) if this assignment had not been made, the application being known by the title:

SEMICONDUCTOR LASER MANUFACTURING METHOD AND  
SEMICONDUCTOR LASER

## Attorney Docket No.:

for which the undersigned has/have executed an application for patent in the United States of America on the same day herewith. Where this instrument is not filed concurrently with the application, the following identifying information may be added after execution:

Serial No.:

Filing Date:

1. The undersigned hereby agree(s) to sign and execute any further documents and instruments which may be necessary, lawful and proper in the prosecution of said above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reexamination or reissue application or in any amendments, extension of interference proceedings, or otherwise to secure the title thereto to the ASSIGNEE.

2. The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

3. The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the ASSIGNEE.

4. The undersigned hereby authorize(s) and request(s) the Commissioner of Patents in the United States to issue any and all Letters Patent resulting from said application or any division or divisions or continuing applications thereof to the said ASSIGNEE.

5. The undersigned hereby grant(s) to the firm of Morrison & Foerster LLP the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREBY, executed by the undersigned on the date(s) opposite the undersigned name(s).

Oct. 31, 2001  
Date

Tetsuyoshi Inoue  
Typed Name: Tetsuyoshi INOUE

Oct. 31, 2001  
Date

Kazunori Matsubara  
Typed Name: Kazunori MATSUBARA

Date

Typed Name:

Date

Typed Name:

Date

Typed Name:

This assignment may be signed before a U.S. Notary Public or before at least two witnesses who also sign here:

Oct. 31, 2001  
Date

Naoko Itoh  
Typed Name: Naoko ITOH

Oct. 31, 2001  
Date

Satoko Koshio  
Typed Name: Satoko KOSHIO